

1	CCGGAGAGCCCGGAGTGAGTAGCGAGTCGGCAACCTCCAGGGGTACAAATATTCTGTCTCATTCAAAGACTAGCACCATGATCGAAA LHisSerLysThrArgThrAsnAspGlyLys	12
101	AATTACATATCCGCTGGGGTCAAGGAAATATCAGATAAATATCTAAAGCAGGAGATGGTGAGACGATTAAAGATGGTTGTCAAACTTTTATGCAATATG SILethrTyrProProGlyValLysGluLLeSerAspLysLLeSerLysGluGluMetValArgArgLeuLysMetValValLysThrPheMetAspMet	45
201	GACCAGGACTCTCAAGAAAGAAAGGAGCTTTATTTAAACCTAGCTTTACATCTTGCTTCAAGCTCTCTGTAACATGTTCCCTTAC AspGlnAspSerGluGluLysGluLLeuTyrLeuAsnLeuAlaLeuHisLeuAlaSerAspPhePheLeuLysHisProGlyLysAspValArgLeuL	79
301	TGGTAGCCTGCTGCTTGTGATATTTTCAAGCTTTATGCTTGAAGCTCTTACACATCCCTGATAAAGTAAAGGATATATTTATGTTTATAACAG euValAlaCysCysLeuAlaAspLLePheArgLLeTyrAlaProGluAlaProTyrThrSerProAspLysLeuLysAspLLePheMetPheLLeThrAr	112
401	ACAGTTCAAGGGGCTAGAGGATACAAAGAGCCCAATTCATAGCTATTTTATTTACTTCAGAACATGGCTTGGGTCAAGTCATATAACATATGCTTT SGLnLeuLysGlyLeuGluAspThrLysSerProGlnPheAsnArgTyrPheTyrLeuLLeuGluAsnLLeAlaTrpValLysSerTyrAsnLLeCysPhe	145
501	CAGTTAGAAGATACCAATGAAATTTTCAACAGCTATACAGAACCTTATTTTCAAGTTAAACAATGCCACAATCAGAAAGTCCATATGCACATGGTAG GluLeuGluAspSerAsnGluLLePheThrGlnLeuTyrArgThrLeuPheSerValLLeAsnAsnGlyHisAsnGlnLysValHisMetHisMetValA	179
601	ACCTTATGAGCTCTATTATTTGTGAAGGTGATACAGTGTCTCAGGAGCTTTTGGATACGGTTTACTAACTCTGGTACCTGCTATAAGAAATTTAAACA spLLeMetSerSerLLeLLeCysGluGlyAspThrValSerGlnGluLeuLLeuAspThrValLeuValAsnLeuValProAlaHisLysAsnLeuAsnLys	212
701	GCAAGCATATGATTTGCCAAAGGCTTTACTGAAGAGGACAGCTCAAGCTATTGACCATATATTACCCTTTTAAATCAGGTTCTGATGCTTGGGAAA SGLnAlaTyrAspLLeuAlaLysAlaLeuLLeuLysArgThrAlaGlnAlaLLeGluProTyrLLeThrThrPhePheAsnGlnValLLeMetLeuGlyLys	245
801	ACATCTATCAGCATTGTCTCAGACCATGCTTTTGAAGCTTAAATTTGGAGCTCTACAATATTCATAGTCATTTGCTGCTCTGTTTACCCTCAGCTTCAAT ThrSerLLeSerAspLLeuSerGluHisValPheAspLLeLLeuGluLLeuTyrAsnLLeAspSerHisLLeuLLeuSerValLeuProGlnLLeuGluP	279
901	TTAAATTAAGAGCAATGATATCAGGAGGCGCTACAAGTTCTTAAACTACTGGCAAAATGTTTGGGCAAGGATTCAGAATTGCTTCTCAAAACA helLysLLeuLysSerAsnAspAsnGluGluArgLeuGlnValValLysLLeuLLeuAlaLysMetPheGlyAlaLysAspSerGluLLeuAlaSerGlnAsnLys	312
1001	GCCACTTTGGCAGTGCTACTTGGCAGGTTTAAATGATATCCATGTACCAATCCGCTGGAAATGCTGAAATTTGCTAGCCATTGCTCTCAAGCCATCC SProLLeuTrpGlnCysTyrLeuLLeuArgPheAsnAspLLeHisValProLLeArgLeuGluCysValLysPheAlaSerHisCysLLeuMetAsnHisPro	345
1101	GATTTAGCAAAAGACTTAAACAGATATCTTAAAGTACGCTCACATCACCCTCAGGAAGCTATTAGACATGATGTTATGTTGCTCAATAGTTACAGCTGTA AspLeuAlaLysAspLLeuThrGluTyrLeuLysValArgSerHisAspProGluGluAlaLLeArgHisAspValLLeValSerLLeValThrAlaAlaL	379
1201	AAAAGGATATCTTCTGGTCAATGATCAGCTTACTTAAATTTGTGAGAGAGGAAACATTAGACAACGATGAGAGTACGCAAGCAAGCCATGATGGGACT ysLysAspLLeLLeuLLeuValAsnAspHisLLeuLLeuAsnPheValArgGluArgThrLeuAspLysArgTrpArgValArgLysGluAlaMetMetGlyLe	412
1301	TGCECAAAATTTATAAGAAATATGCTTACAGTACAGGCTGGAAGATGCTGCAAAACAGATAGCATGGATCAAAGACAAATTCCTACATATATATT uAlaGlnLLeTyrLysLysTyrAlaLeuGlnSerAlaAlaGlyLysAspAlaAlaLysGlnLLeAlaLLeTrpLLeLysAspLysLeuLLeuHisLLeTyrTyr	445
1401	CAAAATAGTATTGATCATCGACTACTTGTGAACGGATCTTGTCTCAATACATGCTTCTCACAATTTAGAACTACAGAACGGATGAAATGCTTATATT GlnAsnSerLLeAspAspArgLeuValGluArgLLePheAlaGlnTyrMetValProHisAsnLLeuGluThrThrGluArgMetLysCysLLeuTyrT	479
1501	ACTTGATGCCCACTGGATTTAAATGCTGTGAAGGATTTGAATGAAATGCTGAAATGCTGCAAACTCCGACATCAAGTAAAGGATTTGCTTCACTT yrLeuTyrAlaThrLLeuAspLLeuAsnAlaValLysAlaLeuAsnGluMetTrpLysCysGlnAsnLLeuLLeuArgHisGlnValLysAspLLeuLLeuAspLLe	512
1601	GATTAAGCAAGCCCAACAGATGTCAGTGTCAAGGCCATATTTTCAAAAGTATGCTTATTAACAAGAAATTTACCTGATCTGCTGTAAGGCTCAGGATTTG uLLeLysGlnProLysThrAspAlaSerValLysAlaLLePheSerLysValMetValLLeThrArgAsnLeuProAspProGlyLysAlaGlnAspPhe	545
1701	ATGAAGAAATTCACACAGGTGTAGAGATGATGAGAAATAAGAAAGCAGTTAGAGTACTTGTAGTCCAACATGCTCTGCAAGCAGGCTCAAGGTT MetLysLysPheThrGlnValLLeGluAspAspGluLysLLeArgLysGlnLLeuGluValLeuValSerProThrCysSerCysLysGlnAlaGluGlyC	579
1801	GTGTGGGTGAAATAACTAAGAGTTGGGCAACCCCAACAGCTACAATTCCTTCTGCAAAATGATCAAGTTTCTCTTGGAGGATAGCAGCTGTGCA ysValArgGluLLeThrLysLysLLeuGlyAsnProLysGlnProThrAsnProPheLLeuGluMetLLeLysPheLLeuLLeuGluArgLLeAlaProValHi	612
1901	CATAGATACCAATCTATCAGTGTCTTATTAACAAGTGAACAAATCAATAGATGCAACAGCAGATGATGAAGATGAGGGTGTTCACACTGATCAAGCC SILeAspThrGluSerLLeSerAlaLLeuLLeLysGlnValAsnLysSerLLeAspGlyThrAlaAspAspGluAspGluGlyValProThrAspGlnAla	645
2001	ATCAGAGCAGCTCTGAAGTCTTAAAGTACTCTCAATTAACAGTCCATCTCATTTCTGCTGCAACATTTCAATCAATTACTGGCTGTCTCAAAA SILeArgAlaGlyLLeuGluLLeuLLeuLysValLeuSerPheThrHisProLLeSerPheHisSerAlaGluThrPheGluSerLeuLLeuAlaCysLLeuLysM	679
2101	TGGATGATGAAAAAGTAGCAGAGTGCAGTACAATTTTCAAAACACAGGAAGCAAAATTTGAAGAGGATTTCCACACATCAGATCAGCCTTGTCTCC etAspAspGluLysValAlaGluAlaAlaLLeuGlnLLePheLysAsnThrGlySerLysLLeGluGluAspPheProHisLLeArgSerAlaLLeuLLeuPr	712
2201	TGTTTTACATCAAAATCTAAAAAGGACCCCGGTCAGGCCAATATGCCATTCTTGTATCCATCCGATATTTCTAGTAAAGAGACCCAGTTTGGAA ovalLeuHisHisLysSerLysLysGlyProProArgGlnAlaLysTyrAlaLLeHisCysLLeHisAlaLLePheSerSerLysGluThrGlnPheAla	745
2301	CAGATATTTGAGCCTCTGCAATAGAGCCTAGATCCAAGCAACCTGGAACATCTCATAACACCATTCGTTACTATTGGTCAATATTGCTCTCTTGCACCTG GlnLLePheGluProLeuHisLysSerLeuAspProSerAsnLLeuGluHisLeuLLeThrProLLeuValThrLLeGlyHisLLeAlaLLeuLLeuAlaProA	779
2401	ATCAATTTGCTGCTCTTGGAAATCTTGGGTAGCTACTTTCATTTGTGAAGATCTTCTCATGAATGATCGGCTTCCAGGAAAAAGACAACTAACTTTG spGlnPheAlaAlaProTrpLysSerTrpValAlaThrPheLLeValLysAspLLeuLLeMetAsnAspArgLLeuProGlyLysLysThrThrLysLeuTr	812
2501	GTTTCCAGATGAAGAAGTATCTCTCAGACAATCGTCAAAATTCAGGCTATTAAATGATGTTTCCATGCTTCCAACTGATCAAGCC pValProAspGluGluValSerProGluThrMetValLysLLeGlnAlaLLeLysMetMetValArgTrpLeuLLeuGlyMetLysAsnAsnHisSerLys	845
2601	TCAGGAATCTCTACCTTAAGATTGCTAACACAATATTGCTATGATGGAGACTTGCAGAACAGGGGAAATAGTAAACCATATGTCAGCTCTGA SerGlyThrSerThrLeuArgLeuLLeThrThrLLeLLeHisSerAspGlyAspLLeuThrGluGlnGlyLysLLeSerLysProAspMetSerArgLeuA	879
2701	GACTTGCTGCTGGGAGTGTATTGTGAAGCTGGCACAAGAACCTGTTACCATGAATCATCATTAGAACCAATATCAGCTATGTCATTAGCTATCAA rgLLeuAlaAlaGlySerAlaLLeValLysLeuAlaGlnGluProCysTyrHisGluLLeLLeThrLeuGluGlnTyrGlnLLeuCysAlaLLeuAlaLLeA	912

FIG. 1-1

55
 LYLNLALHLASDFFLKHGPKDVRLLVACCLADIFRIYAPEAPYTSPDKLKDIFMFI TRQLKGL 161
 196 217 241 277
 LDTVLVN L VPAHKN LNKQAYDL LMLGKTS ISDLSEH VFDLILE LYNIDSH LLLSVLPQL
 319 355 375 404
 LGRFNDIH VPIRLEC VKFASHC LMNHPD LAKDLTEYL VTAAKD ILLVNDH LLNFVRERT LDKRWRV

FIG. 2

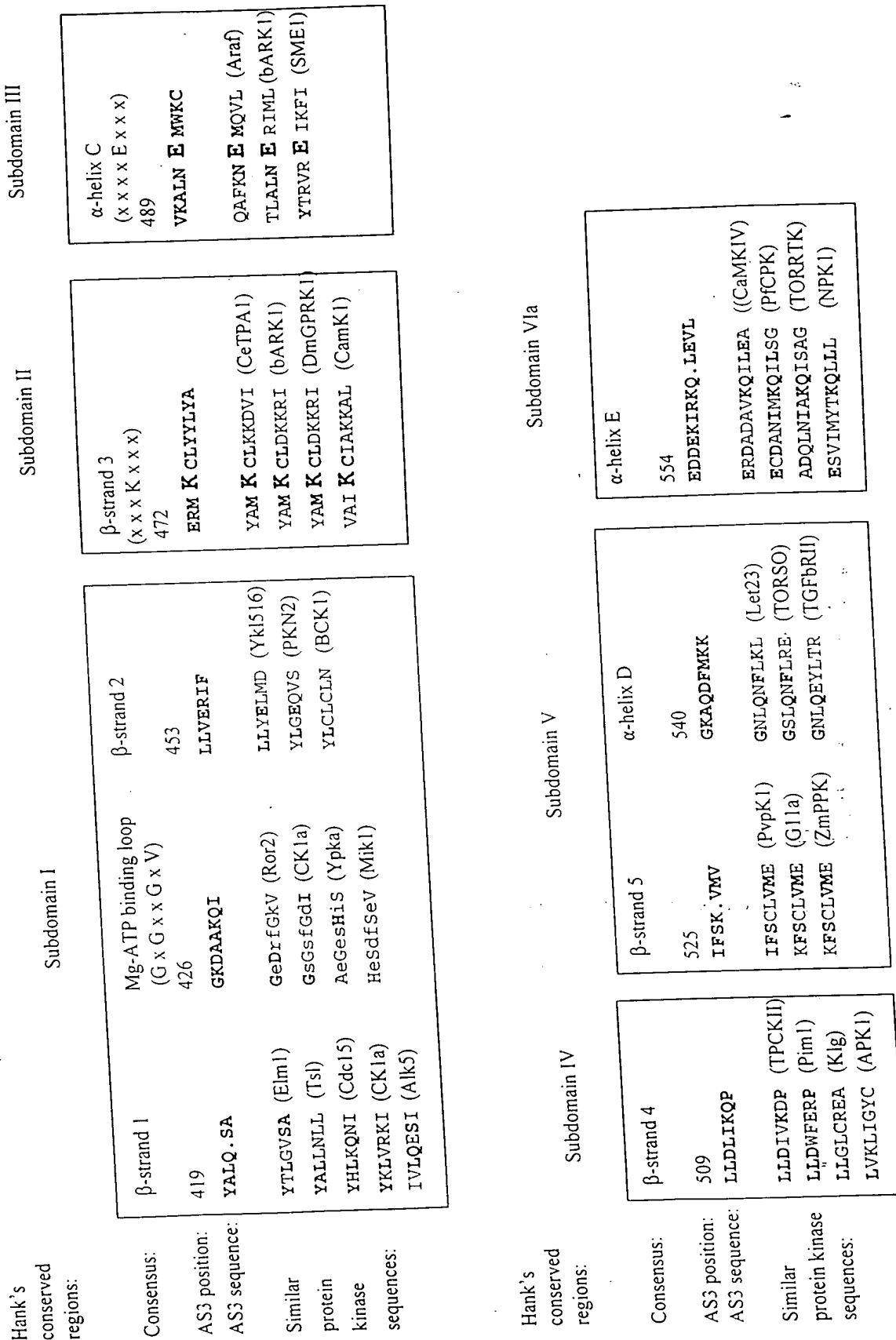


FIG. 3

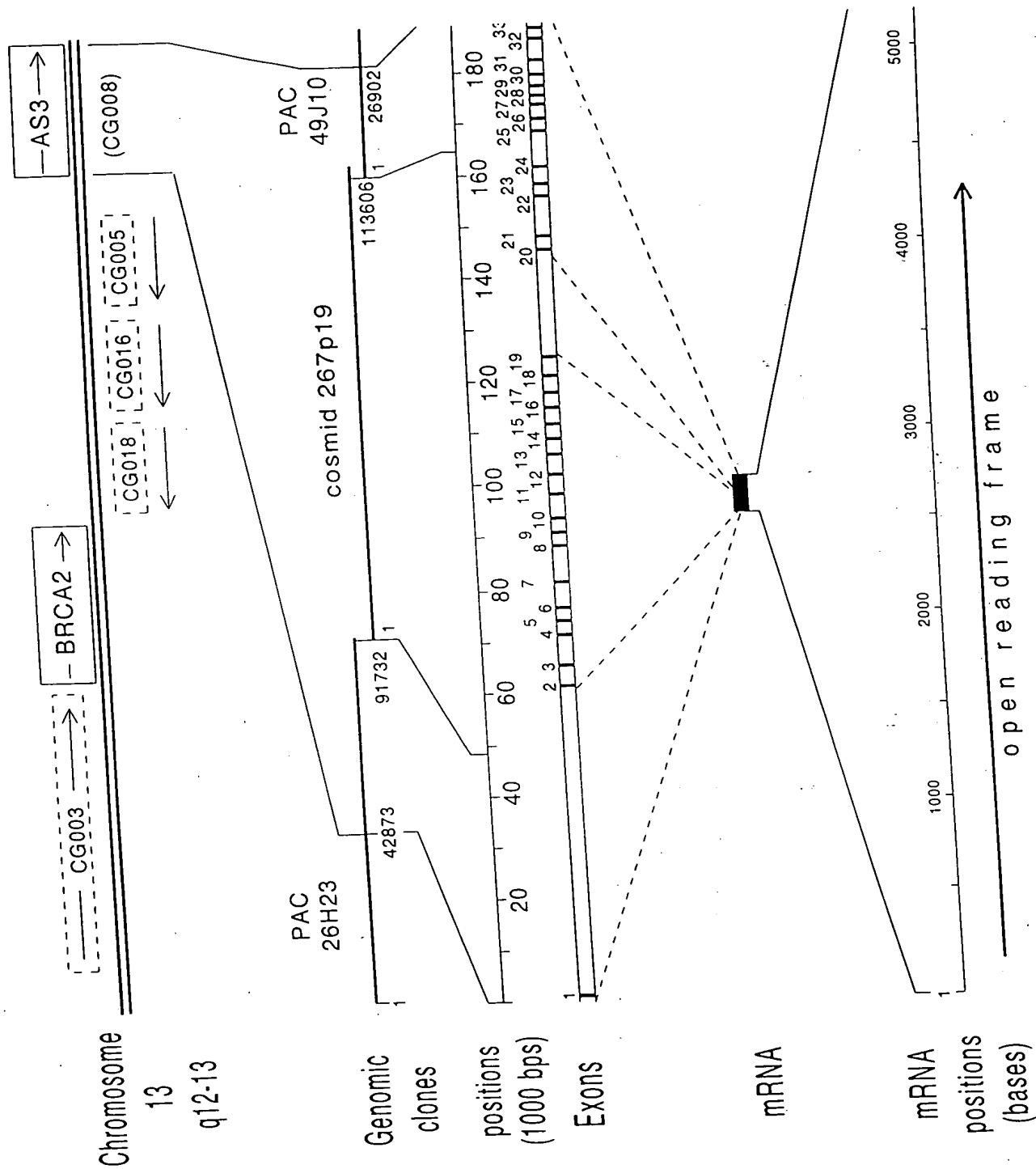


FIG. 4

4287 1 46 (42919)
 CCGGAGAG.... Exon 1ACCCGGAG * gga
 3347) 47 173 (175)
ttttcttgcag * GGGTAGAA.... Exon 2GATTAAAG * gtagta...
 (16397) 174 377 (16602)
 ...ttttattttgtatag * ATGGTTGT.... Exon 3AACTAAAG * gcaagta...
 (22832) 378 464 (22920)
 ...tctttttttttaag * GATATATT.... Exon 4TACTTGAG * gtaagca...
 (23028) 465 562 (23125)
ccttatttttag * AACATTGC.... Exon 5GTTATAAA * gtaagtt...
 (23747) 563 689 (23873)
ttttgaattgcag * CAATGGCC.... Exon 6CTCATAAG * gtgagta...
 (32357) 690 854 (32439)
tttatgttttcag * AATTATAA.... Exon 7TTACCACT * gtaagtc...
 (37809) 855 911 (37951)
 ...ctttctctcctcaaaag * TTTTATAA.... Exon 8AATTAAAG * gtaactt...
 (40437) 912 1027 (40554)
ttttatttttag * AGCAATGA.... Exon 9TTGGGCAG * gatatg...
 (43428) 1028 1122 (43524)
 ...tttatattttatcag * GTTAAATG.... Exon 10....CTTAACAG * gtactat...
 (48471) 1123 1268 (48617)
tggtatctttcag * AGTATCTT.... Exon 11....ACAAACGA * gtaagta...
 (51727) 1269 1420 (51880)
ttttgtttttaag * TGGAGAGT.... Exon 12....GATGATCG * gtaagtt...
 (53049) 1421 1534 (53164)
 ...tctgctttttgtag * ACTACTTG.... Exon 13....GCTGTGAA * gtagtt...
 (58816) 1535 1616 (58898)
tttgtgttttcag * AGCATTGA.... Exon 14....AACCCAAA * gtaagta...
 (61447) 1617 1665 (61497)
 ...tttgtgtatttacag * ACAGATGC.... Exon 15....TATTACAA * gtaagtt...
 (64323) 1666 1805 (64464)
tttatttttaag * GAAATTTA.... Exon 16....GTTGTGTG * gtaagga...
 (65916) 1806 1921 (66033)
 ...taatctgtatttacag * CGTGAAAT.... Exon 17....TCTATCAG * gtatttg...
 (71527) 1922 2027 (71633)
 ...ttggtcatatttttag * TGCTCTTA.... Exon 18....TGCTTAAG * gtaagta...
 (74539) 2028 2188 (74700)
 ...tgattcattttatag * GTACTCTC.... Exon 19....ATCAGATC * gtgagtt...
 (96694) 2189 2312 (96818)
tttttttttaaatag * AGCCTTGC.... Exon 20....TATTTGAG * gtaatga...
 (99765) 2313 2471 (99925)
 ...tccccctcattttcag * CCTCTGCA.... Exon 21....ATGATCGG * gtaattt...
 (105674) 2472 2540 (105744)
 ...ctcgtttatttttag * CTTCCAGG.... Exon 22....TGGTCAAA * gtgagta...
 (107185) 2541 2677 (107322)
 ...ttgtctcttaaatag * ATTCAGGC.... Exon 23....AAAATTAG * gtagca...
 (110571) 2678 2801 (110696)
 ...ctactcatttttcag * TAAACCAG.... Exon 24....CTATCAAC * gtaagga...
 (4319) 2802 3006 (4524)
tttgtcttttacag * GATGAATG.... Exon 25....TGTTAGTG * gtaagca...
 (6829) 3007 3121 (6945)
ttttcttttcag * AAAAATTA.... Exon 26....GTAAAGA * gtaagac...
 (9074) 3122 3254 (9208)
tttttttttttag * ATGTCTTT.... Exon 27....TGAATGAA * gtagta...
 (9522) 3255 3374 (9642)
tatactattgcag * AAACGTGA.... Exon 28....CTGACAAG * gtagta...
 (10614) 3375 3437 (10679)
 ...ttctcttggttag * AATTTCAG.... Exon 29....CTGGAAAA * gtagtt...
 (11561) 3438 3583 (11709)
 ...catttctcatttcag * CCTAAAC.... Exon 30....AAGGGGAG * gtaagt...
 (15476) 3584 3689 (15583)
 ...tgtctgtattaaaag * GCTTGATA.... Exon 31....TTGTAAGG * gtgagat...
 (21107) 3690 4129 (21548)
 ...ttttttttccctag * TCTGAATT.... Exon 32....CAGCAGAG * gtaagca...
 (21640) 4130 4354 (21866)
 ...tcttccccaaagcag * AGCAGAAT.... Exon 33....TACACTAG * gtaagat...
 (26002) 4355 5253 (26902)
ctttccttttaag * GTACGGCG.... Exon 34....GAATGAGT * (poly-A)

FIG. 5

1 CGGAGAGGAGGAGGAACGGCAGGCTGGCTGCGGAAGGGGAGGGGGGGGAGAGGCGATTGGATGCGCGCGCGCGGATCCCGGAGAGCCCCGAG

101 TGAGCGGAGTAGCGAGTCGGCAACCCGGAGGGGTAGAAATATTTCTGTCTGGCTCATTCAAAGACTAGGACCAATGATGGAAAAATACATATCCGCCT
MetAlaHisSerLysThrArgThrAsnAspGlyLysIleThrTyrProPro 17

201 GGGGTCAAGGAAATATCAGATAAAATATCTAAAGAGGAGATGGTGAGACGATTAAAGATGGTTGTGAAAACCTTTATGGATATGGACCAAGGACTCTGAAG
GlyValLysGluIleSerAspLysIleSerLysGluGluMetValArgArgLeuLysMetValValLysThrPheMetAspMetAspGlnAspSerGluG 51

301 AAGAAAAGGAGCTTTATTTAAACCTAGCTTTACATCTTGCTTCAGATTTTTTCTCAAGCATCTGGTAAAGATGTTGCTTACTGGTAGCCTGCTGCCT
luGluLysGluLeuTyrLeuAsnLeuAlaLeuHisLeuAlaSerAspPhePheLeuLysHisProGlyLysAspValArgLeuLeuValAlaCysLysLe 84

401 TGCTGATATTTTCAGGATTATGTCTCTGAAGCTCCTTACACATCCCTGATAAACTAAAGGATATATTTATGTTTATAACAAGACAGTTGAAGGGGCTA
uAlaAspIlePheArgIleTyrAlaProGluAlaProTyrThrSerProAspLysLeuLysAspIlePheMetPheIleThrArgGlnLeuLysGlyLeu 117

501 GAGGATACAAAGAGCCCAATTCATAGGTATTTTATTTACTTGAGAACATTGCTTGGGTCAAGTCATATAACATATGCTTTGAGTTAGAAGATAGCA
GluAspThrLysSerProGlnPheAsnArgTyrPheTyrLeuLeuGluAsnIleAlaTrpValLysSerTyrAsnIleCysPheGluLeuGluAspSerA 151

601 ATGAAATTTTCAACCCAGCTATACAGAACCTTATTTTCAGTTATAAACAATGGCCACAATCAGAAAGTCCATATGCACATGGTAGACCTTATGAGCTCTAT
snGluIlePheThrGlnLeuTyrArgThrLeuPheSerValIleAsnAsnGlyHisAsnGlnLysValHisMetHisMetValAspLeuMetSerSerIl 184

701 TATTTGTGAAGGTGATACAGTGTCTCAGGAGCTTTTGGATACGGTTTGTAGTAATCTGGTACCTGCTCATAGAATTTAAACAAGCAAGCATATGATTG
eIleCysGluGlyAspThrValSerGlnGluLeuLeuAspThrValLeuValAsnLeuValProAlaHisLysAsnLeuAsnLysGlnAlaTyrAspLeu 217

801 GCAAAGGCTTTACTGAAGAGGACAGCTCAAGCTATTGAGCCATATATTACCACTTTTTTAAATCAGGTTCTGATGCTTGGGAAAACATCTATCAGCGATT
AlaLysAlaLeuLeuLysArgThrAlaGlnAlaIleGluProTyrIleThrArgLeuGluCysValLysPheAlaSerHisCysLeuMetAsnHisProAspLeuAlaLysAspL 251

901 TGTCAGAGCATGCTTTGACTTAATTTTGGAGCTCTACAATATTGATAGTCATTGCTGCTCTGTTTTACCCAGCTTGAATTTAAATTAAGAGCAA
euSerGluHisValPheAspLeuIleLeuGluLeuTyrAsnIleAspSerHisLeuLeuLeuSerValLeuProGlnLeuGluPheLysLeuLysSerAs 284

1001 TGATAATGAGGAGCGCTACAAGTTGTTAACTACTGGCAAAAATGTTTGGGGCAAAGGATTGAGAAATGGCTTCTCAAACAAGCCACTTTGGCAGTGC
nAspAsnGluGluArgLeuGlnValValLysLeuLeuAlaLysMetPheGlyAlaLysAspSerGluLeuAlaSerGlnAsnLysProLeuTrpGlnCys 317

1101 TACTTGGGCAGGTTAATGATATCCATGTACCAATCCGCCTGGAATGTGTAAATTTGCTAGCCATTGTCTCATGAACCATCTGATTAGCAAAAGACT
TyrLeuGlyArgPheAspIleHisValProIleArgLeuGluCysValLysPheAlaSerHisCysLeuMetAsnHisProAspLeuAlaLysAspL 351

1201 TAACAGAGTATCTTAAAGTGAGGTACATGACCTGAGGAGCTATTAGACATGATGTTATTGTGTCAATAGTTACAGCTGCTAAAAAGGATATTCTTCT
euThrGluTyrLeuLysValArgSerHisAspProGluGluAlaIleArgHisAspValIleValSerIleValThrAlaAlaLysLysAspIleLeuLe 384

1301 GGTCAATGATCACTTACTTAATTTTGTGAGAGAGAGAACATTAGACAAACGATGAGAGTACGCAAGAGGCCATGATGGGACTTGCCCAAAATTTATAAG
uValAsnAspHisLeuLeuAsnPheValArgGluArgThrLeuAspLysArgTrpArgValArgLysGluAlaMetMetGlyLeuAlaIleTyrLys 417

1401 AAATATGCTTTACAGTCAGCAGCTGGAAAAGATGCTGCAAAACAGATAGCATGGATCAAAGACAAATGCTACATATATTTATCAAATAGTATTGATG
LysTyrAlaLeuGlnSerAlaAlaGlyLysAspAlaAlaLysGlnIleThrTrpIleLysAsnLysLeuLeuHisIleTyrTyrGlnAsnSerIleAspA 451

1501 ATCGACTACTTGTGTAACGGATCTTTGCTCAATACATGGTTCTCACAATTTAGAACTACAGAACGGATGAATGCTTATATTACTTGTATGCCACACT
spArgLeuLeuValGluArgIlePheAlaGlnTyrMetValProHisAsnLeuGluThrThrGluArgMetLysCysLeuTyrTyrLeuTyrAlaThrLe 484

1601 GGATTTAAATGCTGTGAAAGCATTGAATGAAATGTGGAATGTCAAAATCTGCTCCGACATCAAGTAAAGGATTGCTTGACTTGATTAAGCAACCCAAA
uAspLeuAsnAlaValLysAlaLeuAsnGluMetTrpLysCysGlnAsnLeuArgHisGlnValLysAspLeuLeuAspLeuIleLysGlnProLys 517

1701 ACAGATGCCAGTGTCAAGGCCATATTTTCAAAGTGGTTATTACAAGAAATTTACCTGATCCTGGTAAGGCTCAGGATTTTCATGAAGAAATTCACAC
ThrAspAlaSerValLysAlaIlePheSerLysValMetValIleThrArgAsnLeuProAspProGlyLysAlaGlnAspPheMetLysLysPheThrG 551

1801 AGGTGTTAGAAGATGATGAGAAAATAAGAAAGCAGTTAGAAGTACTTGTAGTCCAACATGCTCCTGCAAGCAGGCTGAAGGTTGTGTCGCTGAAATAAC
InValLeuGluAspAspGluLysIleArgLysGlnLeuGluValLeuValSerProThrCysSerCysLysGlnAlaGluGlyCysValArgGluIleTh 584

1901 TAAGAAGTTGGGCAACCCCAACAGCCTACAAATCCTTCTGGAATGATCAAGTTTCTCTTGGAGAGGATAGCACCTGTGCACATAGATACCGAATCT
rLysLysLeuGlyAsnProLysGlnProThrAsnProPheLeuGluMetIleLysPheLeuLeuArgHisGlnValLysAspLeuLeuAspLeuIleLysGlnProLys 617

2001 ATCAGTGCTCTTATTAACAGTGAACAAATCAATAGATGGAACAGCAGATGATGAAGATGAGGGTGTTCCAACTGATCAAGCCATCAGAGCAGGTCTTG
IleSerAlaLeuIleLysGlnValAsnLysSerIleAspGlyThrAlaAspAspGluAspGluGlyValProThrAspGlnAlaIleArgAlaGlyLeuG 651

2101 AACTGCTTAAGGTACTCTCATTACACATCCCATCTCATTTCATTCTGCTGAAACATTGAAATCATTACTGGCTTGTCTGAAAATGGATGATGAAAAAGT
luLeuLeuLysValLeuSerPheThrHisProIleSerPheHisSerAlaGluThrPheGluSerLeuLeuAlaCysLeuLysMetAspAspGluLysVa 684

2201 AGCAGAAGCTGCACTACAAATTTTCAAAACACAGGAAGCAAATTTGAAGAGGATTTCCACACATCAGATCAGCCTTGCTTCTGTTTACATCACAAA
lAlaGluAlaAlaLeuGlnIlePheLysAsnThrGlySerLysIleGluGluAspPheProHisIleArgSerAlaLeuLeuProValLeuHisHisLys 717

2301 TCTAAAAAGGACCCCGCTCAAGCCAAATATGCCATTGATGTATCCATGCGATATTTTCTAGTAAAGAGACCCAGTTTGCACAGATATTTGAGCCTC
SerLysLysGlyProProArgGlnAlaLysTyrAlaIleHisCysIleHisAlaIlePheSerSerLysGluThrGlnPheAlaGlnIlePheGluProL 751

2401 TGCATAAGAGCCTAGATCCAAGCAACCTGGAACATCTCATAACACCATTGGTTACTATTGGTCATATTGCTCTCCTTGCACCTGATCAATTTGCTGCTCC
euHisLysSerLeuAspProSerAsnLeuGluHisLeuIleThrProLeuValThrIleGlyHisIleAlaLeuLeuAlaProAspGlnPheAlaAlaPr 784

2501 TTGGAATCTTGGGTAGCTTACTTTTCATTGTGAAGCATCTTCTCATGAATGATCGGCTTCCAGGGAAAAGACAACTAAACTTTGGGTTCCAGATGAAGAA
oTrpLysSerTrpValAlaThrPheIleValLysAspLeuLeuMetAsnAspArgLeuProGlyLysLysThrThrLysLeuTrpValProAspGluGlu 817

2601 GTATCTCCTGAGACAATGGTCAAAATTCAGGCTATTAAATGATGGTTCGATGGCTACTTGAATGAAAAATATCAGATAAATCAGGAACCTTCTACCT
ValSerProGluThrMetValLysIleGlnAlaIleLysMetMetValArgTrpLeuLeuGlyMetLysAsnAsnHisSerLysSerGlyThrSerThrL 851

2701 TAAGATTGCTAAACAATATTCATAGTGTGAGACTTGACAGAACAGGGGAAAATAGTAAACAGATATGTCACGCTGAGACTTGCTGCTGGGAG
euArgLeuLeuThrThrIleLeuHisSerAspGlyAspLeuThrGluGlnGlyLysIleSerLysProAspMetSerArgLeuArgLeuAlaAlaGlySe 884

2801 TGCTATTGTGAAGCTGGCACAAGAACCCTGTTACCATGAAATCATCACATTAGAACAATATCAGCTATGTGCATTAGCTATCAACGATGAATGCTATCAA
rAlaIleValLysLeuAlaGlnGluProCysTyrHisGluIleIleThrLeuGluGlnTyrGlnLeuCysAlaLeuAlaIleAsnAspGluCysTyrGln 917

2901 GTAAGACAAGTGTGTCACAAAGGCTTTCCCGTTTACGGCTTCCACTTGAGTATATGGCAATCTGTGCCCTTTGTGCAAAAAGATCCTG
ValArgGlnValPheAlaGlnLysLeuHisLysGlyLeuSerArgLeuArgLeuProLeuGluTyrMetAlaIleCysAlaLeuCysAlaLysAspProv 951

3001 TAAAGGAGAGAAGAGCTCATGCTAGGCAATGTTTGGTGAAAAATATAATGTAAGCGGGAGTATCTGAAGCAGCATGAGCTGTTAGTGAAAAATATT
alLysGluArgArgAlaHisAlaArgGlnCysLeuValLysAsnIleAsnValArgArgGluTyrLeuLysGlnHisAlaAlaValSerGluLysLeuLe 984

3101 GTCTCTTCTACCAGAGTATGTTGTTCCATATACATTACCTTTTGGCACATGACCCAGATTATGTCAAAGTACAGGATATTGAACAACCTTAAAGATGTT
uSerLeuLeuProGluTyrValValProTyrThrIleHisLeuLeuAlaHisAspProAspTyrValLysValGlnAspIleGluGlnLeuLysAspVal 1017

3201 AAAGAAATGCTTTGGTTGTTCTGGAATATTAATGGCTAAAAATGAAAAAACAGTCAAGCTTTTATCAGAAAGATGGTAGAAAAATTTAAACAAACAA
LysGluCysLeuTrpPheValLeuGluIleLeuMetAlaLysAsnGluAsnAsnSerHisAlaPheIleArgLysMetValGluAsnIleLysGlnThrL 1051

FIG. 6-1

